



CONSTRUCTION EQUIPMENT

703614 RENTALS - DIESEL ENGINE



Sample No: VCP452798
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 703614 RENTALS



SAMPLE INFORMATION

Sample Number	VCP452798	VCP432745	VCP405816	---
Sample Date	10 May 2024	14 Sep 2023	24 Apr 2023	---
Machine Hours	1238	626	313	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	MARGINAL	NORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 17.7	■ 13.2	▲ 9.4	---
Base Number (BN)	mg KOH/g	■ 7.8	■ 9.9	■ 9.3	---
Oxidation (PA)	%	74	79	45	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.8	■ 0.4	■ 0.3	---
Nitration (PA)	%	62	62	53	---
Sulfation (PA)	%	63	61	48	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	▲ 3.1	---
Silicon	ppm	■ 16	■ 12	■ 54	---
Sodium	ppm	■ 3	■ 6	■ 16	---
Potassium	ppm	■ 2	■ 1	■ 2	---

WEAR METALS

Iron	ppm	■ 34	■ 30	■ 58	---
Copper	ppm	■ 4	■ 2	■ 12	---
Lead	ppm	■ 2	■ <1	■ 0	---
Tin	ppm	■ 1	■ <1	■ <1	---
Aluminum	ppm	■ 4	■ 3	■ 14	---
Chromium	ppm	■ 1	■ <1	■ <1	---
Molybdenum	ppm	■ 42	■ 50	■ 78	---
Nickel	ppm	■ <1	■ 0	■ <1	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	■ <1	■ 0	■ 0	---
Manganese	ppm	■ 1	■ <1	■ 2	---
Vanadium	ppm	<1	<1	0	---

ADDITIVES

Calcium	ppm	■ 1677	■ 2100	● 3028	---
Magnesium	ppm	■ 492	■ 522	● 90	---
Zinc	ppm	■ 1061	■ 1251	■ 1073	---
Phosphorus	ppm	■ 1295	■ 976	■ 941	---
Barium	ppm	■ 0	■ 0	■ 9	---
Boron	ppm	■ 90	■ 48	■ 15	---

Depot: VOLVO0095
Unique No: 11035268
Signed: Jonathan Hester
Report Date: 22 May 2024



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GRAPHS

